

WEST Search History

DATE: Wednesday, April 16, 2003

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	(air with inlet) same (air with outlet)	79347	L1
L2	L1 same (louver or hood or slat or vent)	5192	L2
L3	L2 and (air conditioner or air purifier or air cleaner)	475	L3
L4	L2 same (air conditioner or air purifier or air cleaner)	200	L4
L5	L1 same louver	545	L5
L6	L5 same (air conditioner or air purifier or air cleaner)	65	L6
L7	L6 and (ion with (generating or generator or emitter or emitting))	0	L7

END OF SEARCH HISTORY

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L7	L6 and (ion with (generating or generator or emitter or emitting))	0	L7
L8	L7	0	L8
L9	Taylor-charles\$.in. or lau-shek\$.in.	271	L9
L10	l6 not L9	65	L10

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 50 of 65 returned.

☐ 1. Document ID: US 20020144513 A1

L10: Entry 1 of 65

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020144513
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020144513 A1

TITLE: Air conditioner

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gunji, Yoshihiro	Kawasaki-shi		JP	
Tateyama, Shinji	Kawasaki-shi		JP	
Imai, Yukihiro	Kawasaki-shi		JP	
Koyama, Tooru	Kawasaki-shi		JP	
Hatanaka, Takehiro	Kawasaki-shi		JP	
Aketa, Yasuhiro	Kawasaki-shi		JP	

US-CL-CURRENT: 62/263; 62/285, 62/298

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Drawn Desc	Image										

☐ 2. Document ID: US 20020070552 A1

L10: Entry 2 of 65

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020070552
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020070552 A1

TITLE: Engine generator

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Higuchi, Masaaki	Tokyo		JP	
Saito, Shinichi	Tokyo		JP	

US-CL-CURRENT: 290/1A

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Drawn Desc	Image										

☐ 3. Document ID: US 20010035023 A1

L10: Entry 3 of 65

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010035023
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010035023 A1

TITLE: Case for an air conditioner having an inner machine and an outer machine

PUBLICATION-DATE: November 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kuo, Chin-Sheng	Tainan Hsien		TW	

US-CL-CURRENT: 62/412

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 4. Document ID: US 6494940 B1

L10: Entry 4 of 65

File: USPT

Dec 17, 2002

US-PAT-NO: 6494940
DOCUMENT-IDENTIFIER: US 6494940 B1

TITLE: Air purifier

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hak; Marron	Richmond	VA		

US-CL-CURRENT: 96/224; 55/471, 55/486, 55/491, 55/DIG 34, 96/397, 96/416, 96/417, 96/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 5. Document ID: US 6354936 B1

L10: Entry 5 of 65

File: USPT

Mar 12, 2002

US-PAT-NO: 6354936
DOCUMENT-IDENTIFIER: US 6354936 B1

TITLE: Opening-closing structure of an inlet grille in an air conditioner

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noh; Jung Ho	Kimhae-shi			KR
Chung; Chul Shin	Kunpo-shi			KR

US-CL-CURRENT: 454/201; 16/361, 55/493

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 6. Document ID: US 6321556 B1

L10: Entry 6 of 65

File: USPT

Nov 27, 2001

US-PAT-NO: 6321556

DOCUMENT-IDENTIFIER: US 6321556 B1

TITLE: Three-way mounting of an air conditioner

DATE-ISSUED: November 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tesche; Carlos Afonso	Canoas-RS			BR
Correa; Juan Carlos Carne	Porto Alegre-RS			BR

US-CL-CURRENT: 62/285; 62/298

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 7. Document ID: US 6272878 B1

L10: Entry 7 of 65

File: USPT

Aug 14, 2001

US-PAT-NO: 6272878

DOCUMENT-IDENTIFIER: US 6272878 B1

TITLE: Window type air conditioner

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chang; Woo Sung	Dongkwang-dong			KR

US-CL-CURRENT: 62/262; 62/515

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 8. Document ID: US 6164082 A

L10: Entry 8 of 65

File: USPT

Dec 26, 2000

US-PAT-NO: 6164082
DOCUMENT-IDENTIFIER: US 6164082 A

TITLE: Air conditioner with air cleaner

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okamoto; Yoshikatsu	Osaka			JP
Ikuzawa; Yoshiaki	Osaka			JP

US-CL-CURRENT: 62/317; 62/78, 96/15, 96/96

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 9. Document ID: US 6136074 A

L10: Entry 9 of 65

File: USPT

Oct 24, 2000

US-PAT-NO: 6136074
DOCUMENT-IDENTIFIER: US 6136074 A

TITLE: Air conditioning apparatus with an air cleaning function and electric dust collector for use in the same

DATE-ISSUED: October 24, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okamoto; Yoshikatsu	Osaka			JP
Ikuzawa; Yoshiaki	Osaka			JP
Okazaki; Akinori	Osaka			JP
Sakaue; Takao	Osaka			JP

US-CL-CURRENT: 96/62; 95/78, 96/63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 10. Document ID: US 6129781 A

L10: Entry 10 of 65

File: USPT

Oct 10, 2000

US-PAT-NO: 6129781
DOCUMENT-IDENTIFIER: US 6129781 A

TITLE: Air conditioning apparatus with an air cleaning function and electric dust collector for use in the same

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Okamoto; Yoshikatsu	Osaka			JP
Ikuzawa; Yoshiaki	Osaka			JP
Okazaki; Akinori	Osaka			JP
Sakaue; Takao	Osaka			JP

US-CL-CURRENT: 96/25; 55/282_3, 55/DIG_10, 95/73, 95/74, 96/28, 96/399, 96/74

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 11. Document ID: US 5950446 A

L10: Entry 11 of 65

File: USPT

Sep 14, 1999

US-PAT-NO: 5950446

DOCUMENT-IDENTIFIER: US 5950446 A

TITLE: Compact air conditioner

DATE-ISSUED: September 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tromblee; Jon D.	Coloma	MI		
Cur; Nihat O.	St. Joseph	MI		
Huie; Michael L.	St. Joseph	MI		
Anselmino; Jeffery J.	St. Joseph	MI		

US-CL-CURRENT: 62/262; 165/122, 165/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 12. Document ID: US 5888133 A

L10: Entry 12 of 65

File: USPT

Mar 30, 1999

US-PAT-NO: 5888133

DOCUMENT-IDENTIFIER: US 5888133 A

TITLE: Air conditioner

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mori; Nobuyuki	Kawasaki			JP
Kawai; Yoshimi	Kawasaki			JP

US-CL-CURRENT: 454/318; 454/315, 454/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 13. Document ID: US 5873780 A

L10: Entry 13 of 65

File: USPT

Feb 23, 1999

US-PAT-NO: 5873780

DOCUMENT-IDENTIFIER: US 5873780 A

TITLE: Air conditioner

DATE-ISSUED: February 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mori; Nobuyuki	Kanagawa-ken			JP
Kawai; Yoshimi	Kanagawa-ken			JP

US-CL-CURRENT: 454/285; 454/315

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 14. Document ID: US 5850742 A

L10: Entry 14 of 65

File: USPT

Dec 22, 1998

US-PAT-NO: 5850742

DOCUMENT-IDENTIFIER: US 5850742 A

TITLE: Apparatus and method of controlling automatic door of air conditioner

DATE-ISSUED: December 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bang; Yong-Woong	Kyungki-do			KR
Moon; Je-Myoung	Kyungki-do			KR

US-CL-CURRENT: 62/89; 251/129.03, 454/233, 454/315, 454/325, 62/161, 62/263

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 15. Document ID: US 5820792 A

L10: Entry 15 of 65

File: USPT

Oct 13, 1998

US-PAT-NO: 5820792

DOCUMENT-IDENTIFIER: US 5820792 A

TITLE: Perfume dispenser

DATE-ISSUED: October 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lin; Hsi Huang	Taipei			TW

US-CL-CURRENT: 261/30; 261/35, 261/DIG 65, 422/124

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 16. Document ID: US 5775989 A

L10: Entry 16 of 65

File: USPT

Jul 7, 1998

US-PAT-NO: 5775989

DOCUMENT-IDENTIFIER: US 5775989 A

TITLE: Methods of and apparatus for adjusting air flow control louver

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Choi; Kwi-Ju	Suwon			KR

US-CL-CURRENT: 454/285; 454/256

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 17. Document ID: US 5765635 A

L10: Entry 17 of 65

File: USPT

Jun 16, 1998

US-PAT-NO: 5765635

DOCUMENT-IDENTIFIER: US 5765635 A

TITLE: Air conditioner for forming an air curtain

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rhee; Harnq	Seoul			KR

US-CL-CURRENT: 165/203; 165/42, 165/43, 454/189, 454/907

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 18. Document ID: US 5575326 A

L10: Entry 18 of 65

File: USPT

Nov 19, 1996

US-PAT-NO: 5575326

DOCUMENT-IDENTIFIER: US 5575326 A

TITLE: Indoor unit of air conditioner

DATE-ISSUED: November 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Asami; Yasutoshi	Tokyo			JP
Kawasaki; Isao	Yokohama			JP

US-CL-CURRENT: 165/124; 165/122, 165/151

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 19. Document ID: US 5456633 A

L10: Entry 19 of 65

File: USPT

Oct 10, 1995

US-PAT-NO: 5456633

DOCUMENT-IDENTIFIER: US 5456633 A

TITLE: Methods and apparatus for adjusting air flow controls louvers

DATE-ISSUED: October 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Choi; Kwi-Ju	Suwon			KR

US-CL-CURRENT: 454/256; 454/315, 454/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 20. Document ID: US 5417401 A

L10: Entry 20 of 65

File: USPT

May 23, 1995

US-PAT-NO: 5417401

DOCUMENT-IDENTIFIER: US 5417401 A

TITLE: One-piece motor mount for use in an air conditioner

DATE-ISSUED: May 23, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Christopher M.	Smyrna	TN		
Campbell; Timothy J.	Nashville	TN		
Gipson; Billy P.	Marshall County	TN		

US-CL-CURRENT: 248/674; 248/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 21. Document ID: US 5319942 A

L10: Entry 21 of 65

File: USPT

Jun 14, 1994

US-PAT-NO: 5319942

DOCUMENT-IDENTIFIER: US 5319942 A

TITLE: Automatic control for an air conditioner

DATE-ISSUED: June 14, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Paustian; John K.	Benton Township, Berrien County	MI		
Glotsbach; Patrick J.	St. Joseph	MI		
Manson; Larry J.	Baroda Township, Berrien County	MI		

US-CL-CURRENT: 62/89; 62/180, 62/227

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 22. Document ID: US 5315838 A

L10: Entry 22 of 65

File: USPT

May 31, 1994

US-PAT-NO: 5315838

DOCUMENT-IDENTIFIER: US 5315838 A

TITLE: Air conditioner filter monitor

DATE-ISSUED: May 31, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Christopher M.	Nashville	TN		

US-CL-CURRENT: 62/129; 116/272, 116/DIG.25, 96/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 23. Document ID: US 5230655 A

L10: Entry 23 of 65

File: USPT

Jul 27, 1993

US-PAT-NO: 5230655

DOCUMENT-IDENTIFIER: US 5230655 A

TITLE: Louver assembly for a room air conditioner

DATE-ISSUED: July 27, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Christopher M.	Nashville	TN		
Phillips; Brian J.	Rutherford County	TN		

US-CL-CURRENT: 454/202; 454/315, 454/318, 454/319

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 24. Document ID: US 5222374 A

L10: Entry 24 of 65

File: USPT

Jun 29, 1993

US-PAT-NO: 5222374

DOCUMENT-IDENTIFIER: US 5222374 A

TITLE: Assembly method and construction for a room air conditioner

DATE-ISSUED: June 29, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Christopher M.	Smyrna	TN		
Campbell; Timothy J.	Nashville	TN		
Gipson; Billy P.	Marshall County	TN		

US-CL-CURRENT: 62/262; 439/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 25. Document ID: US 5211219 A

L10: Entry 25 of 65

File: USPT

May 18, 1993

US-PAT-NO: 5211219

DOCUMENT-IDENTIFIER: US 5211219 A

TITLE: Air conditioner

DATE-ISSUED: May 18, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kawabata; Katsuhiro	Osaka			JP
Yamashita; Hiroyuki	Osaka			JP
Hasegawa; Isao	Osaka			JP
Tanaka; Junichiro	Osaka			JP
Matsushima; Junji	Osaka			JP

US-CL-CURRENT: 165/122; 165/124, 165/183

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 26. Document ID: US 5085057 A

L10: Entry 26 of 65

File: USPT

Feb 4, 1992

US-PAT-NO: 5085057

DOCUMENT-IDENTIFIER: US 5085057 A

TITLE: Dual side discharge room air conditioner with foamed insulation air passage walls

DATE-ISSUED: February 4, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Christopher M.	Smyrna	TN		
Campbell; Timothy J.	Nashville	TN		
Farfaglia, deceased; Leonard T.	late of Brentwood	TN		
Gipson; Billy P.	Marshall County	TN		
Matambo; Thompson	Brentwood	TN		

US-CL-CURRENT: 62/262; 165/135, 415/119, 415/177, 454/262

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 27. Document ID: US 5081849 A

L10: Entry 27 of 65

File: USPT

Jan 21, 1992

US-PAT-NO: 5081849

DOCUMENT-IDENTIFIER: US 5081849 A

TITLE: Assembly method and construction for a room air conditioner

DATE-ISSUED: January 21, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Christopher M.	Smyrna	TN		
Campbell; Timothy J.	Nashville	TN		
Gipson; Billy P.	Marshall County	TN		

US-CL-CURRENT: 62/262; 62/429

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 28. Document ID: US 5065597 A

L10: Entry 28 of 65

File: USPT

Nov 19, 1991

US-PAT-NO: 5065597
DOCUMENT-IDENTIFIER: US 5065597 A

TITLE: Dual side discharge air housing for room air conditioner

DATE-ISSUED: November 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farfaglia, deceased; Leonard T.	late of Brentwood	TN		
Campbell; Timothy J.	Nashville	TN		
Gipson; Billy P.	Marshall County	TN		
Matambo; Thompson	Brentwood	TN		
Thompson; Christopher M.	Smyrna	TN		

US-CL-CURRENT: 62/262; 62/407, 62/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 29. Document ID: US 5065596 A

L10: Entry 29 of 65

File: USPT

Nov 19, 1991

US-PAT-NO: 5065596
DOCUMENT-IDENTIFIER: US 5065596 A

TITLE: Dual louvered side air discharge openings for room air conditioner

DATE-ISSUED: November 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harris; James E.	Hermitage	TN		
Farfaglia, deceased; Leonard T.	late of Brentwood	TN		
Wetherholt; Steven D.	Nashville all of	TN		

US-CL-CURRENT: 62/262; 62/407, 62/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 30. Document ID: US 5046406 A

L10: Entry 30 of 65

File: USPT

Sep 10, 1991

US-PAT-NO: 5046406
DOCUMENT-IDENTIFIER: US 5046406 A

TITLE: Adjustable louver assembly for a room air conditioner

DATE-ISSUED: September 10, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harris; James E.	Hermitage	TN		
Farfaglia, deceased; Leonard T.	late of Brentwood	TN		

US-CL-CURRENT: 454/313; 454/202, 454/316.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 31. Document ID: US 5042602 A

L10: Entry 31 of 65

File: USPT

Aug 27, 1991

US-PAT-NO: 5042602
DOCUMENT-IDENTIFIER: US 5042602 A

TITLE: Loader

DATE-ISSUED: August 27, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakatani; Toshinori	Osaka			JP
Suenaga; Koji	Osaka			JP

US-CL-CURRENT: 180/68.1; 165/41, 180/68.3, 180/68.4, 180/89.14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 32. Document ID: US 5029451 A

L10: Entry 32 of 65

File: USPT

Jul 9, 1991

US-PAT-NO: 5029451
DOCUMENT-IDENTIFIER: US 5029451 A

TITLE: Air conditioning apparatus

DATE-ISSUED: July 9, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imaiida; Tsuyoshi	Nakamura			JP
Itoh; Takeshi	Nakamura			JP
Nozoe; Hiroki	Aichi Pref.			JP
Kato; Iwanori	Aichi Pref.			JP
Sakai; Hiroshi	Asahi Pref.			JP

US-CL-CURRENT: 62/259.1; 165/48.1, 454/300, 62/DIG.16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 33. Document ID: US 4841742 A

L10: Entry 33 of 65

File: USPT

Jun 27, 1989

US-PAT-NO: 4841742

DOCUMENT-IDENTIFIER: US 4841742 A

TITLE: Portable air conditioner for automotive vehicles

DATE-ISSUED: June 27, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Biby; Robert	Troy	IL	62294	

US-CL-CURRENT: 62/420; 165/122

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 34. Document ID: US 4813345 A

L10: Entry 34 of 65

File: USPT

Mar 21, 1989

US-PAT-NO: 4813345

DOCUMENT-IDENTIFIER: US 4813345 A

TITLE: Wind direction deflection blade mounting apparatus

DATE-ISSUED: March 21, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kobayashi; Tatuhiro	Kusatsu			JP
Ebata; Yasuhiko	Otsu			JP
Matsumi; Hideki	Shiga			JP
Fukui; Seiji	Kusatsu			JP
Ukai; Koichi	Shiga			JP

US-CL-CURRENT: 454/202; 62/263, 74/42

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 35. Document ID: US 4731903 A

L10: Entry 35 of 65

File: USPT

Mar 22, 1988

US-PAT-NO: 4731903

DOCUMENT-IDENTIFIER: US 4731903 A

TITLE: Self-latching hinge

DATE-ISSUED: March 22, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kennedy; Robert W.	Bridgewater	NJ		
Tyler; Howard J.	Marlboro	NJ		

US-CL-CURRENT: 16/224; 16/257, 16/291, 16/296, 16/382, 16/DIG 13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 36. Document ID: US 4475616 A

L10: Entry 36 of 65

File: USPT

Oct 9, 1984

US-PAT-NO: 4475616

DOCUMENT-IDENTIFIER: US 4475616 A

TITLE: Engine cover device for light vehicles

DATE-ISSUED: October 9, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamazaki; Sho	Tokyo			JP
Matsumoto; Kazutoshi	Saitama			JP
Ochiai; Hideo	Tokyo			JP

US-CL-CURRENT: 180/215; 180/68_3, 180/69_3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 37. Document ID: US 4342204 A

L10: Entry 37 of 65

File: USPT

Aug 3, 1982

US-PAT-NO: 4342204

DOCUMENT-IDENTIFIER: US 4342204 A

TITLE: Room ejection unit of central air-conditioning

DATE-ISSUED: August 3, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Melikian; Zograb A.	Erevan			SU
Oganian; Larisa G.	Erevan			SU
Simonian; Arsen S.	Erevan			SU
Kirakosian; Robert T.	Erevan			SU

US-CL-CURRENT: 62/304; 165/222, 165/60, 261/112_1, 261/127, 261/36_1, 261/94, 261/DIG 75, 454/337

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWMC

☐ 38. Document ID: US 4303423 A

L10: Entry 38 of 65

File: USPT

Dec 1, 1981

US-PAT-NO: 4303423

DOCUMENT-IDENTIFIER: US 4303423 A

TITLE: Engine air cleaner

DATE-ISSUED: December 1, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Camplin; Harry R.	Marine on the St. Croix	MN		
Shackleton; Michael A.	San Jose	CA		

US-CL-CURRENT: 55/337; 55/294, 55/302, 55/426, 55/DIG.28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWMC

☐ 39. Document ID: US 4218223 A

L10: Entry 39 of 65

File: USPT

Aug 19, 1980

US-PAT-NO: 4218223

DOCUMENT-IDENTIFIER: US 4218223 A

TITLE: Pre-cleaner for combustion engines

DATE-ISSUED: August 19, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lidstone; James E.	St. Louis Park	MN		
Osendorf; Richard J.	St. Paul	MN		

US-CL-CURRENT: 95/271; 55/385.5, 55/431, 55/454, 55/455, 55/460

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWMC

☐ 40. Document ID: US 4173458 A

L10: Entry 40 of 65

File: USPT

Nov 6, 1979

US-PAT-NO: 4173458

DOCUMENT-IDENTIFIER: US 4173458 A

TITLE: Air cleaner

DATE-ISSUED: November 6, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stiles; Arthur G.	Wheatridge	CO	80033	

US-CL-CURRENT: 55/405; 55/457

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 41. Document ID: US 4135897 A

L10: Entry 41 of 65

File: USPT

Jan 23, 1979

US-PAT-NO: 4135897

DOCUMENT-IDENTIFIER: US 4135897 A

TITLE: Air cleaner

DATE-ISSUED: January 23, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gondek; John T.	Minneapolis	MN	55421	

US-CL-CURRENT: 55/404; 55/418, 55/429, 55/DIG.28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 42. Document ID: US 4133547 A

L10: Entry 42 of 65

File: USPT

Jan 9, 1979

US-PAT-NO: 4133547

DOCUMENT-IDENTIFIER: US 4133547 A

TITLE: Engine componentry

DATE-ISSUED: January 9, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fox; Anthony E.	Ann Arbor	MI		

US-CL-CURRENT: 180/68.3; 123/41.64, 180/309, 180/69.21, 181/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 43. Document ID: US 3727537 A

US-PAT-NO: 3727537
DOCUMENT-IDENTIFIER: US 3727537 A
** See image for Certificate of Correction **

TITLE: AIR DISTRIBUTION UNIT

DATE-ISSUED: April 17, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harty, Jr.; Millard Fillmore	Bloomfield Hills	MI		

US-CL-CURRENT: 454/230; 62/259_1, 62/408

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 44. Document ID: US 3699873 A

L10: Entry 44 of 65

File: USPT

Oct 24, 1972

US-PAT-NO: 3699873
DOCUMENT-IDENTIFIER: US 3699873 A
** See image for Certificate of Correction **

TITLE: AIR FLOW CONTROL APPARATUS

DATE-ISSUED: October 24, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Irvin; Albert H.	Richmond	IN		

US-CL-CURRENT: 454/319; 415/123, 415/125, 415/148, 454/202, 62/262

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 45. Document ID: JP 2002276984 A

L10: Entry 45 of 65

File: JPAB

Sep 25, 2002

PUB-NO: JP02002276984A
DOCUMENT-IDENTIFIER: JP 2002276984 A
TITLE: AIR CONDITIONER

PUBN-DATE: September 25, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
KIKUCHI, HIROYUKI	

INT-CL (IPC): F24 F 1/00; F24 F 13/08

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 46. Document ID: JP 2001241699 A

L10: Entry 46 of 65

File: JPAB

Sep 7, 2001

PUB-NO: JP02001241699A
DOCUMENT-IDENTIFIER: JP 2001241699 A
TITLE: COOLER/HEATER/AIR CONDITIONER

PUBN-DATE: September 7, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

EKIBA, TOMOKI

INT-CL (IPC): F24 F 5/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWIC

☐ 47. Document ID: JP 2001174001 A

L10: Entry 47 of 65

File: JPAB

Jun 29, 2001

PUB-NO: JP02001174001A
DOCUMENT-IDENTIFIER: JP 2001174001 A
TITLE: COOLING/HEATING AIR CONDITIONER

PUBN-DATE: June 29, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

EKIBA, TOMOKI

INT-CL (IPC): F24 F 5/00; F24 F 13/15; F25 B 1/00; F25 B 13/00; F25 B 47/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☐ 48. Document ID: JP 2001148590 A

L10: Entry 48 of 65

File: JPAB

May 29, 2001

PUB-NO: JP02001148590A
DOCUMENT-IDENTIFIER: JP 2001148590 A
TITLE: COOLING SYSTEM IN HOUSING

PUBN-DATE: May 29, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

OKAMOTO, YOSHIYUKI

KAWAGUCHI, SEIJI

KISHITA, KOJI

INT-CL (IPC): H05 K 7/20; F28 D 15/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☐ 49. Document ID: JP 2001065910 A

L10: Entry 49 of 65

File: JPAB

Mar 16, 2001

PUB-NO: JP02001065910A

DOCUMENT-IDENTIFIER: JP 2001065910 A

TITLE: AIR-CONDITIONER

PUBN-DATE: March 16, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

TAKAHASHI, TOMOKI

SUGIYAMA, SHINJI

TAIRA, RITSUSHI

NAKAJIMA, SHUNSUKE

INT-CL (IPC): F24 F 1/00; F24 F 13/14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☐ 50. Document ID: JP 2001065909 A

L10: Entry 50 of 65

File: JPAB

Mar 16, 2001

PUB-NO: JP02001065909A

DOCUMENT-IDENTIFIER: JP 2001065909 A

TITLE: AIR-CONDITIONER

PUBN-DATE: March 16, 2001

INVENTOR-INFORMATION:

NAME

COUNTRY

TAKAHASHI, TOMOKI

SUGIYAMA, SHINJI

TAIRA, RITSUSHI

NAKAJIMA, SHUNSUKE

YANAGIDA, MAKOTO

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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